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| Nota di contenuto | -- Agricultural and Environmental Monitoring. -- Comparative Analysis of Cattle Behavior Across Intensive Dairy Farms through Dimensional Reduction Techniques. -- Environmental Sound Recognition for Human-Robot Interaction in Social Robots. -- A new Transformer-based hybrid model to forecast olive fruit fly using multimodal data. -- Infrared Driver Monitoring Systems - A Review, New Opportunities and Trends. -- Ambient Intelligence Integration in Vocational Education: Evaluating Smart Learning Environments for Digital Skills Development. -- Zero-shot and Few-shot Learning with Vision-Language Models for post-disaster Structural Damage |

Assessment. -- Biomedical Applications. -- Analyzing the Impact of Data Augmentation on Tumor Detection and Classification in Mammograms. -- An Enhanced Hybrid Machine Learning Model for Plant Disease Detection and Classification. -- Interpretable ML for Stress Detection from Vital Signs Using SHAP. -- Learning from Normal Brain Activity for Automatic Detection of Photoparoxysmal Responses as Electroencephalographic Anomalies. -- Subsymbolic and Symbolic Pipeline for an Explainable EEG Authentication System. -- Cybersecurity and Network Protection. -- Analyzing DoS Attacks on CoAP Networks Using Low-Dimensional Latent Representations. -- An Approach to Anomaly Detection with Dynamic Threshold Definition for Real-World Environments. -- Loss Functions for Time Series Forecasting in Network Security Situation Awareness. -- A Hybrid Feature Selection Approach Using Filter-Wrapped Evaluation (FWE) for Attack Detection in SDN. -- RAG embeddings storage optimization through quantization and dimensionality reduction. -- Exploratory Visualization of IoT Attacks on the NF-CSE-CIC-IDS2018 dataset. -- Data Mining and Decision Support Systems. -- A Microservice System Architecture for Receiving ETL System. -- A Novel General Hybrid System for Data Feature Selection. -- Profiling Public Instagram Accounts with a Multimodal Vector for Hate Exposure Analysis. -- Symbolic Regressor: a interpretability tool for Non-Intrusive Load Monitoring. -- IoT Device Fingerprinting: Optimized with Data Diversity and Feature Selection for Computational Efficiency. -- Improvement of Multi-Label Self-Adjusting Memory kNN Classifier for Sparse and Class-Imbalanced Data Streams. -- HYBPARSIMONY-IDT: Hybrid Parsimonious Search for Interpretable Decision Trees. -- Analysis of Kernel Thinning for Scalable Support Vector Machines.

Sommario/riassunto

This book constitutes the proceedings of the 20th International Conference on Hybrid Artificial Intelligence Systems, HAIS 2025, held in Salamanca, Spain, during October 16–17, 2025. The 53 full papers included in this book were carefully reviewed and selected from 120 submissions. They focus on the following topical sections: Part I: Agricultural and Environmental Monitoring; Biomedical Applications; Cybersecurity and Network Protection; Data Mining and Decision Support Systems. Part II: Deep Learning and Representation Learning; HAIS Energy Applications; Evolutionary Computation and Optimization; Reinforcement Learning and AI Planning; Smart Mobility and Transportation Optimization; Time Series and Forecasting Methods.